ELSEVIER

Thin Solid Films 259 (1995) 281–282

thin solid films

Author Index of Volume 259

Abdel-Hady, K. 194
Ahmed, M.F. 194
Akhsakhalyan, A.D. 131
Akindinov, D.E. 85
Alers, P. 14
Alexeev, I.V. 85
Ameziane, E.L. 18
Anderson, W.A. 264
Arai, T. 174
Ashour, A. 194
Azizan, M. 18

Baba, D. 32
Badyal, J.P.S. 46
Barker, C.P. 46
Barna, P.B. 96
Bârsan, N. 91
Baumann, H. 225
Belu-Marian, A. 105
Bennouna, A. 18
Bentin, H. 237
Bernard, C. 25
Bica de Moraes, M.A. 139
Blanquet, E. 25
Bourhila, N. 25
Boyd, I.W. 1

Cantão, M.P. 70
Canut, B. 113
Carey, R. 75
Castro, S.G. 139
Cernik, R.I. 131
Chang, L.H. 264
Choe, G. 231
Chung, S.J. 231
Cisneros, J.I. 70
Collins, S.P. 131
Craciun, V. 1
Cross, J.S. 5

Darwish, S. 248
De Riccardis, M.F. 154
Devenyi, A. 105
Dischler, B. 225
Dongol, M. 203
Dubrovsky, T.B. 85
Durrant, S.F. 139
Dutron, A.-M. 25

Ech-chamikh, E. 18
Eichin, G. 225
Elders, J. 1

Elsevier Science S.A.

El-Kadry, N. 194
El-Korashy, A. 203
El-Zahed, H. 203
Ericson, F. 181

Feigin, L.A. 79
Fischer, W. 118

Gardeniers, J.G.E. 1
Gerotovsky, J. 1
Geszti, O. 96
Graupner, W. 118

Hashimoto, M. 32
Hayashi, N. 146
Hayward, I. 14
Hermann, A.M. 218
Hintermann, H.E. 14

Ivanov, E. 105

Jain, A. 167
Jia, Q.X. 264

Kalchenko, V.I. 244
Kamei, M. 38
Kazantseva, Z.I. 244
Kelly, R.S.A. 46
Kim, T.W. 253
Kirsten, M. 181
Kito, T. 218
Kochem, K.-H. 46
Kosuge, A. 32
Kovalchuk, M.V. 131
Krier, A. 163

Lakshmikumar, S.T. 150
Lal, R. 259
Lange, P. 181
Larkins, E.C. 225
Lavrik, N.V. 244
Leditzky, G. 118
Lee, J.Y. 253
Leising, G. 118
Lewowski, T. 53
Li, J. 188
Li, M. 188
Liu, Z. 188
Lobanov, O.V. 85
Lopez-Rios, T. 18
Luc, J.T. 275

Madar, R. 25

Malis, O. 105
Malysheva, N.E. 131
Manaila, R. 105
Marçal, N. 139
Markovskiy, L.N. 244
Matolin, V. 65
Mauri, M. 118
Mergel, D. 237
Mirenghi, L. 154
Mizukami, F. 212
Montrel, M.M. 79
Moretti, P. 113
Moriyama, S. 174
Murzin, I.H. 146

Nabok, A.V. 244
Nakai, H. 32
Naziripour, A. 218
Nesterenko, B.A. 244
Newman, D.M. 75
Nguyen Tan, T.A. 18
Nicola, J.H. 139
Nishide, T. 212
Novikova, N.N. 131

Ohkubo, M. 146
Outzourhit, A. 218

Park, H.L. 253
Parry, M.K. 163
Parvanov, S. 270
Penza, M. 154
Petkov, P. 270
Peuchot, B. 65
Philipp, R. 59
Platonov, Yu.Yu. 131
Poker, D. 113

Rausch, D. 237
Radnóczi, G. 96
Ralston, J.D. 225
Ramos, S.M.M. 113
Rastogi, A.C. 150
Retter, U. 59
Revell, K.M. 46
Riad, A.S. 248
Riethmüller, W. 181
Rothemund, W. 225

Sah, R.E. 225
Sáfrán, G. 96
Sakamoto, I. 146
Salashenko, N.N. 131

Savitsky, A.P. 85
Savransky, V.V. 85
Schrader, G.L. 5
Schweitz, J.Å. 181
Serbanescu, M.D. 105
Shigesato, Y. 38
Schivaniuk, A.N. 244
Shrivastava, S. 167
Snelling, J.P. 75
Soliman, H.S. 248
Sosphenov, A.N. 131
Stelzer, F. 118
Sukhorukov, B.I. 79
Sukhorukov, G.B. 79

Tagliente, M.A. 154
Takaki, S. 38
Thevenard, P. 113
Thomas, B.W.J. 75
Tomescu, A. 91
Topkar, A. 259
Torresi, R.M. 70
Tóth, K. 96
Trefny, J.U. 218

Verona, E. 154
Vinhas, R.C.G. 139
Vodenicharov, C. 270

Wagner, J. 225
Walser, R.M. 231
Wan, M. 188
Wenk, B. 181

Yarar, B. 218

Zheludeva, S.I. 131

ELSEVIER

Thin Solid Films 259 (1995) 283–286

thin solid films

Subject Index of Volume 259

Acetylene
mechanisms of polymer film deposition from r.f. discharges of acetylene, nitrogen and helium mixtures 139
Adsorption
complexing properties of calix[4]resorcinolarene LB films 244
Alloys
structural and optical properties of r.f.-sputtered Si_xC_{1-x}:O films 18
Aluminium nitride
low temperature growth of r.f. reactively planar magnetron-sputtered AlN films 154
Aluminium oxide
atomic force microscopy and permeability study of stretching-induced gas barrier loss of AlO_x layers 46
Amorphous materials
sputtering of DyFeCo layers with unbalanced magnetron 237
Anodic oxidation
photoluminescence and Raman studies of porous silicon under various temperatures and light illuminations 275
Antimony
growth kinetics of antimony layers prepared on SiO_x by molecular beam deposition 32
Atomic force microscopy
atomic force microscopy and permeability study of stretching-induced gas barrier loss of AlO_x layers 46

Band structure
electrode-limited currents in Al–(GeSeTl)–Al thin films 270
Barium
fabrication and characterization of $Ba_{1-x}Sr_{1-x}TiO_3$ tunable thin film capacitors 218
Biomaterials
X-ray and infrared study of Langmuir–Blodgett films of the complexes between nucleic acids and aliphatic amines 79
Boron
effect of martensite content on the sliding behaviour of boron-ion-implanted 304 stainless steel 167

Cadmium telluride
structural and optical properties of a strained CdTe/GaAs heterostructure grown by temperature-gradient vapor transport deposition at low temperature 253
variation of optical constants of cadmium telluride thin films with deposition conditions 194
Capacitors
low leakage current $BaTiO_3$ thin film capacitors using a multilayer construction 264
Carbides
growth behavior of chromium carbide and niobium carbide layers on steel substrate, obtained by salt bath immersion coating process 174
Chalcogens
electrode-limited currents in Al–(GeSeTl)–Al thin films 270
Chemical vapour deposition
a thermodynamic and experimental approach to $ReSi_2$ LPCVD 25
low pressure chemical vapor deposition of molybdenum oxides from molybdenum hexacarbonyl and oxygen 5
room-temperature, high-deposition-rate, plasma-enhanced chemical vapour deposition of silicon oxynitride thin films producing low surface damage on lattice-matched and pseudomorphic III–IV quantum-well structures 225
Chemisorption
calibration procedure for SnO_2-based gas sensors 91
Clusters
photoelectron spectroscopy of thin discontinuous silver films deposited onto a sapphire substrate, near the percolation threshold 53
Crystal structure
crystal structures and optical properties of tungsten oxide films prepared by a complexing-agent-assisted sol–gel process 212

Deposition process
growth of ZnO thin films on GaAs by pulsed laser deposition 1
deposition of thick doped polysilicon films with low stress in an epitaxial reactor for surface micromachining applications 181
Diamond
correlations between Raman scattering and thermal expansion behavior for CVD and natural diamond 14
Dielectric properties
an investigation of the influence of film thickness on the electronic and vibrational properties of *trans*-polyacetylene thin films 118
low leakage current $BaTiO_3$ thin film capacitors using a multilayer construction 264
Diffusion
growth behavior of chromium carbide and niobium carbide layers on steel substrate, obtained by salt bath immersion coating process 174
thermal evolution and diffusion of Eu-implanted $SrTiO_3$ 113

Electrical properties and measurements
conductivity of r.f.-sputtered Ni_{100-x}–Si_x thin films with $33 \leqslant x \leqslant 77$ at.% 105
electrode-limited currents in Al–(GeSeTl)–Al thin films 270
fabrication and characterization of $Ba_{1-x}Sr_{1-x}TiO_3$ tunable thin film capacitors 218
low leakage current $BaTiO_3$ thin film capacitors using a multilayer construction 264
transparent and conducting coatings of polyaniline composites 188
transport properties of n-$CdS_{0.5}Se_{0.5}$/p-InP heterojunction cells 248
Electrochemistry
electrochromic behaviour of sputtered titanium oxide thin films 70

Elsevier Science S.A.

two-dimensional truncated nucleation in the anodic film formation of calomel on mercury 59
Ellipsometry
complexing properties of calix[4]resorcinolarene LB films 244
thickness variation of the magneto-optical properties of Tb,Dy–FeCo,Pr thin films 75
Epitaxy
origin of characteristic grain–subgrain structure of tin-doped indium oxide films 38
single-crystal niobium nitride thin films prepared with radical beam assisted deposition 146
subpixel detection in video RHEED image analysis 65
TEM study of the structure and morphology of AgI crystals formed on Ag (001), (011) and (111) thin films 96
Europium oxide
thermal evolution and diffusion of Eu-implanted $SrTiO_3$ 113
Evaporation
optical parameter studies of as-deposited and annealed $Se_{1-x}Te_x$ films 203

Fluorescence
optical methods of investigation of the protein Langmuir–Blodgett films 85

Gallium arsenide
structural and optical properties of a strained CdTe/GaAs heterostructure grown by temperature-gradient vapor transport deposition at low temperature 253
Growth mechanism
correlation between grain morphologies and magnetic properties of CoCrPt/Cr thin films 231
growth kinetics of antimony layers prepared on SiO_x by molecular beam deposition 32

Halides
TEM study of the structure and morphology of AgI crystals formed on Ag (001), (011) and (111) thin films 96
Hardness
effect of martensite content on the sliding behaviour of boron-ion-implanted 304 stainless steel 167
Heat treatment
optical parameter studies of as-deposited and annealed $Se_{1-x}Te_x$ films 203
Heterostructures
structural and optical properties of a strained CdTe/GaAs heterostructure grown by temperature-gradient vapor transport deposition at low temperature 253
transport properties of n-$CdS_{0.5}Se_{0.5}$/p-InP heterojunction cells 248
High energy electron diffraction
subpixel detection in video RHEED image analysis 65

Indium oxide
origin of characteristic grain–subgrain structure of tin-doped indium oxide films 38
Indium phosphide
transport properties of n-$CdS_{0.5}Se_{0.5}$/p-InP heterojunction cells 248
Infrared spectroscopy
an investigation of the influence of film thickness on the electronic and vibrational properties of *trans*-polyacetylene thin films 118
X-ray and infrared study of Langmuir–Blodgett films of the complexes between nucleic acids and aliphatic amines 79
Insulators
ionic penetration into reoxidized nitrided oxides in electrolyte–oxide–semiconductor structures 259
Interfaces
interface recombination and photoluminescence efficiency of thick (>3 μm) InGaAs prepared by LPE with InAs-enriched composition 163
Ion implantation
effect of martensite content on the sliding behaviour of boron-ion-implanted 304 stainless steel 167
thermal evolution and diffusion of Eu-implanted $SrTiO_3$ 113

Langmuir–Blodgett films
complexing properties of calix[4]resorcinolarene LB films 244
optical methods of investigation of the protein Langmuir–Blodgett films 85
X-ray and infrared study of Langmuir–Blodgett films of the complexes between nucleic acids and aliphatic amines 79
Laser ablation
growth of ZnO thin films on GaAs by pulsed laser deposition 1
Lattice parameters
subpixel detection in video RHEED image analysis 65
Luminescence
interface recombination and photoluminescence efficiency of thick (>3 μm) InGaAs prepared by LPE with InAs-enriched composition 163

Magnetic properties and measurements
correlation between grain morphologies and magnetic properties of CoCrPt/Cr thin films 231
sputtering of DyFeCo layers with an unbalanced magnetron 237
thickness variation of the magneto-optical properties of Tb,Dy–FeCo,Pr thin films 75
Magnetic structures
correlation between grain morphologies and magnetic properties of CoCrPt/Cr thin films 231
Metal–oxide semiconductor structure
ionic penetration into reoxidized nitrided oxides in electrolyte–oxide–semiconductor structures 259
Molybdenum oxide
low pressure chemical vapor deposition of molybdenum oxides from molybdenum hexacarbonyl and oxygen 5
Monolayers
two-dimensional truncated nucleation in the anodic film formation of calomel on mercury 59

Nanostructures
new method of ultra-thin film characterization applied to the investigation of C/Ni/C structures under heat load 131
photoluminescence and Raman studies of porous silicon under various temperatures and light illuminations 275
Nickel
conductivity of r.f.-sputtered Ni_{100-x}–Si_x thin films with $33 \leqslant x \leqslant 77$ at.% 105
Niobium
single-crystal niobium nitride thin films prepared with radical beam assisted deposition 146
Nitrides
single-crystal niobium nitride thin films prepared with radical beam assisted deposition 146
Nitrogen
mechanisms of polymer film deposition from r.f. discharges of acetylene, nitrogen and helium mixtures 139
Nucleation
growth behavior of chromium carbide and niobium carbide layers on steel substrate, obtained by salt bath immersion coating process 174

growth kinetics of antimony layers prepared on SiO_x by molecular beam deposition 32
two-dimensional truncated nucleation in the anodic film formation of calomel on mercury 59

Optical coatings
transparent and conducting coatings of polyaniline composites 188
Optical properties
an investigation of the influence of film thickness on the electronic and vibrational properties of *trans*-polyacetylene thin films 118
crystal structures and optical properties of tungsten oxide films prepared by a complexing-agent-assisted sol–gel process 212
optical parameter studies of as-deposited and annealed $Se_{1-x}Te_x$ films 203
structural and optical properties of r.f.-sputtered Si_xC_{1-x}:O films 18
thickness variation of the magneto-optical properties of Tb,Dy–FeCo,Pr thin films 75
variation of optical constants of cadmium telluride thin films with deposition conditions 194
Optical spectroscopy
mechanisms of polymer film deposition from r.f. discharges of acetylene, nitrogen and helium mixtures 139
Organic substances
an investigation of the influence of film thickness on the electronic and vibrational properties of *trans*-polyacetylene thin films 118
Organometallic vapour deposition
low pressure chemical vapor deposition of molybdenum oxides from molybdenum hexacarbonyl and oxygen 5
Oxides
thermal evolution and diffusion of Eu-implanted $SrTiO_3$ 113

Palladium
subpixel detection in video RHEED image analysis 65
Photoelectron spectroscopy
photoelectron spectroscopy of thin discontinuous silver films deposited onto a sapphire substrate, near the percolation threshold 53
Physical vapour deposition
growth kinetics of antimony layers prepared on SiO_x by molecular beam deposition 32
Plasma processing and deposition
mechanisms of polymer film deposition from r.f. discharges of acetylene, nitrogen and helium mixtures 139
room-temperature, high-deposition-rate, plasma-enhanced chemical vapour deposition of silicon oxynitride thin films producing low surface damage on lattice-matched and pseudomorphic III–IV quantum-well structures 225
Polymers
atomic force microscopy and permeability study of stretching-induced gas barrier loss of AlO_x layers 46
transparent and conducting coatings of polyaniline composites 188

Raman scattering
correlations between Raman scattering and thermal expansion behavior for CVD and natural diamond 14
photoluminescence and Raman studies of porous silicon under various temperatures and light illuminations 275
Rhenium
a thermodynamic and experimental approach to $ReSi_2$ LPCVD 25

Segregation
sputtering of DyFeCo layers with an unbalanced magnetron 237
Selenides
novel two-stage selenization process for the preparation of ZnSe films 150
Semiconductors
a thermodynamic and experimental approach to $ReSi_2$ LPCVD 25
interface recombination and photoluminescence efficiency of thick (>3 μm) InGaAs prepared by LPE with InAs-enriched composition 163
structural and optical properties of a strained CdTe/GaAs heterostructure grown by temperature-gradient vapor transport deposition at low temperature 253
Sensors
calibration procedure for SnO_2-based gas sensors 91
deposition of thick doped polysilicon films with low stress in an epitaxial reactor for surface micromachining applications 181
ionic penetration into reoxidized nitrided oxides in electrolyte–oxide–semiconductor structures 259
optical methods of investigation of the protein Langmuir–Blodgett films 85
Silicides
a thermodynamic and experimental approach to $ReSi_2$ LPCVD 25
Silicon
deposition of thick doped polysilicon films with low stress in an epitaxial reactor for surface micromachining applications 181
low pressure chemical vapor deposition of molybdenum oxides from molybdenum hexacarbonyl and oxygen 5
photoluminescence and Raman studies of porous silicon under various temperatures and light illuminations 275
Silicon nitride
room-temperature, high-deposition-rate, plasma-enhanced chemical vapour deposition of silicon oxynitride thin films producing low surface damage on lattice-matched and pseudomorphic III–IV quantum-well structures 225
Silicon oxide
ionic penetration into reoxidized nitrided oxides in electrolyte–oxide–semiconductor structures 259
room-temperature, high-deposition-rate, plasma-enhanced chemical vapour deposition of silicon oxynitride thin films producing low surface damage on lattice-matched and pseudomorphic III–IV quantum-well structures 225
Silver
photoelectron spectroscopy of thin discontinuous silver films deposited onto a sapphire substrate, near the percolation threshold 53
TEM study of the structure and morphology of AgI crystals formed on Ag (001), (011) and (111) thin films 96
Solar cells
novel two-stage selenization process for the preparation of ZnSe films 150
transport properties of n-$CdS_{0.5}Se_{0.5}$/p-InP heterojunction cells 248
Sol–gel
crystal structures and optical properties of tungsten oxide films prepared by a complexing-agent-assisted sol–gel process 212
Sputtering
electrochromic behaviour of sputtered titanium oxide thin films 70
low leakage current $BaTiO_3$ thin film capacitors using a multilayer construction 264

low temperature growth of r.f. reactively planar magnetron-sputtered AlN films 154
origin of characteristic grain–subgrain structure of tin-doped indium oxide films 38
structural and optical properties of r.f.-sputtered Si_xC_{1-x}:O films 18
sputtering of DyFeCo layers with an unbalanced magnetron 237
Stress
correlations between Raman scattering and thermal expansion behavior for CVD and natural diamond 14
deposition of thick doped polysilicon films with low stress in an epitaxial reactor for surface micromachining applications 181
Strontium
fabrication and characterization of $Ba_{1-x}Sr_{1-x}TiO_3$ tunable thin film capacitors 218
Structural properties
conductivity of r.f.-sputtered Ni_{100-x}–Si_x thin films with $33 \leqslant x \leqslant 77$ at.% 105
correlations between Raman scattering and thermal expansion behavior for CVD and natural diamond 14
growth of ZnO thin films on GaAs by pulsed laser deposition 1
Superconductivity
single-crystal niobium nitride thin films prepared with radical beam assisted deposition 146
Superlattices
new method of ultra-thin film characterization applied to the investigation of C/Ni/C structures under heat load 131
Surface and interface states
interface recombination and photoluminescence efficiency of thick ($>3\,\mu m$) InGaAs prepared by LPE with InAs-enriched composition 163
photoelectron spectroscopy of thin discontinuous silver films deposited onto a sapphire substrate, near the percolation threshold 53
Surface conductivity
calibration procedure for SnO_2-based gas sensors 91
transparent and conducting coatings of polyaniline composites 188
Surface defects
optical methods of investigation of the protein Langmuir–Blodgett films 85
Surface diffusion
two-dimensional truncated nucleation in the anodic film formation of calomel on mercury 59
Surface morphology
growth behavior of chromium carbide and niobium carbide layers on steel substrate, obtained by salt bath immersion coating process 174
origin of characteristic grain–subgrain structure of tin-doped indium oxide films 38
Surface potential
complexing properties of calix[4]resorcinolarene LB films 244

Thermal desorption
variation of optical constants of cadmium telluride thin films with deposition conditions 194
Tin oxide
calibration procedure for SnO_2-based gas sensors 91
Titanium oxide
electrochromic behaviour of sputtered titanium oxide thin films 70
fabrication and characterization of $Ba_{1-x}Sr_{1-x}TiO_3$ tunable thin film capacitors 218
Transmission electron microscopy
correlation between grain morphologies and magnetic properties of CoCrPt/Cr thin films 231
TEM study of the structure and morphology of AgI crystals formed on Ag (001), (011) and (111) thin films 96
Tungsten oxide
crystal structures and optical properties of tungsten oxide films prepared by a complexing-agent-assisted sol–gel process 212

Work function
electrode-limited currents in Al–(GeSeTl)–Al thin films 270

X-ray diffraction
growth of ZnO thin films on GaAs by pulsed laser deposition 1
low temperature growth of r.f. reactively planar magnetron-sputtered AlN films 154
new method of ultra-thin film characterization applied to the investigation of C/Ni/C structures under heat load 131
optical parameter studies of as-deposited and annealed $Se_{1-x}Te_x$ films 203
X-ray photoelectron spectroscopy
low temperature growth of r.f. reactively planar magnetron-sputtered AlN films 154
novel two-stage selenization process for the preparation of ZnSe films 150
structural and optical properties of r.f.-sputtered Si_xC_{1-x}:O films 18
X-ray scattering
X-ray and infrared study of Langmuir–Blodgett films of the complexes between nucleic acids and aliphatic amines 79
X-ray total reflection analysis
new method of ultra-thin film characterization applied to the investigation of C/Ni/C structures under heat load 131

Zinc oxide
growth of ZnO thin films on GaAs by pulsed laser deposition 1